

# Title 448 WAC

## STATE TOXICOLOGIST

**Chapters**

- 448-14** State toxicologist standards for analysis of blood samples for alcohol.
- 448-15** Administration of breath alcohol screening test.
- 448-16** Administration of breath test program.

**DISPOSITION OF CHAPTERS FORMERLY CODIFIED IN THIS TITLE**

**Chapter 448-12  
ADMINISTRATION OF BREATHALYZER TEST**

448-12-010	Breathalyzer approved. [Order 4, § 448-12-010, filed 7/9/70; Order 2, § 448-12-010, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-210	filed 5/6/80; Order 5, § 448-12-100, filed 10/19/72.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-015	Checking of breathalyzer machines. [Order 4, § 448-12-015, filed 7/9/70.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-220	BAC Verifier DataMaster, infrared breath test instrument approved. [Statutory Authority: RCW 46.61.506. 86-16-058 (Order 86-02), § 448-12-210, filed 8/4/86; 86-05-003 (Order 85-03), § 448-12-210, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-210, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-016	Certifications. [Order 4, § 448-12-016, filed 7/9/70.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-230	Test defined. [Statutory Authority: RCW 46.61.506. 86-16-058 (Order 86-02), § 448-12-220, filed 8/4/86; 86-05-003 (Order 85-03), § 448-12-220, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-220, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-020	Administration of breathalyzer test. [Statutory Authority: RCW 46.61.506. 86-20-085 (Order 86-04), § 448-12-020, filed 10/1/86; 80-05-112 (Order 80-01), § 448-12-020, filed 5/6/80; Order 5, § 448-12-020, filed 10/19/72; Order 4, § 448-12-020, filed 7/9/70; Order 2, § 448-12-020, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-240	Administration of breath test on BAC Verifier DataMaster instrument. [Statutory Authority: RCW 46.61.506. 86-16-058 (Order 86-02), § 448-12-230, filed 8/4/86; 86-05-003 (Order 85-03), § 448-12-230, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-230, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-030	Instructors. [Order 4, § 448-12-030, filed 7/9/70; Order 2, § 448-12-030, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-250	Instructors. [Statutory Authority: RCW 46.61.506. 86-05-003 (Order 85-03), § 448-12-240, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-240, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-040	Maintenance operators. [Order 4, § 448-12-040, filed 7/9/70; Order 2, § 448-12-040, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-260	Operators. [Statutory Authority: RCW 46.61.506. 86-16-058 (Order 86-02), § 448-12-250, filed 8/4/86; 86-05-003 (Order 85-03), § 448-12-250, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-250, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-050	Operators. [Order 4, § 448-12-050, filed 7/9/70; Order 2, § 448-12-050, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-270	Review of qualifications. [Statutory Authority: RCW 46.61.506. 85-08-012 (Order 85-01), § 448-12-260, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-055	Review of qualifications. [Order 4, § 448-12-055, filed 7/9/70; Order 2, § 448-12-055, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-280	Permit cards. [Statutory Authority: RCW 46.61.506. 86-05-003 (Order 85-03), § 448-12-270, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-270, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-060	Permit cards. [Order 4, § 448-12-060, filed 7/9/70; Order 2, § 448-12-060, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-290	Course approval. [Statutory Authority: RCW 46.61.506. 86-05-003 (Order 85-03), § 448-12-280, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-280, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-070	Course approval. [Order 4, § 448-12-070, filed 7/9/70; Order 2, § 448-12-070, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-300	Minimum course requirements. [Statutory Authority: RCW 46.61.506. 85-08-012 (Order 85-01), § 448-12-290, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-075	Minimum course requirements. [Order 4, § 448-12-075, filed 7/9/70; Order 2, § 448-12-075, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-310	Instruction. [Statutory Authority: RCW 46.61.506. 86-05-003 (Order 85-03), § 448-12-300, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-300, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-080	Instruction. [Order 5, § 448-12-080, filed 10/19/72; Order 4, § 448-12-080, filed 7/9/70; Order 2, § 448-12-080, (Grandfather clause), filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-320	Operators and instructors. [Statutory Authority: RCW 46.61.506. 85-08-012 (Order 85-01), § 448-12-310, filed 3/27/85.] Repealed by 86-05-003 (Order 85-03), filed 2/7/86. Statutory Authority: RCW 46.61.506.
448-12-090	Address for correspondence. [Statutory Authority: RCW 46.61.506. 80-05-112 (Order 80-01), § 448-12-090, filed 5/6/80; Order 2, § 448-12-090, filed 1/31/69.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.	448-12-330	Address for correspondence. [Statutory Authority: RCW 46.61.506. 86-16-058 (Order 86-02), § 448-12-320, filed 8/4/86; 86-05-003 (Order 85-03), § 448-12-320, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-320, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
448-12-100	Names of instructors. [Statutory Authority: RCW 46.61.506. 80-05-112 (Order 80-01), § 448-12-100,		Names of instructors. [Statutory Authority: RCW 46.61.506. 86-05-003 (Order 85-03), § 448-12-330, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-330, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91,

- effective 3/29/91. Statutory Authority: RCW 46.61-506.
- 448-12-340 Effective date. [Statutory Authority: RCW 46.61.506. 86-05-003 (Order 85-03), § 448-12-340, filed 2/7/86; 85-08-012 (Order 85-01), § 448-12-340, filed 3/27/85.] Repealed by 91-06-022, filed 2/26/91, effective 3/29/91. Statutory Authority: RCW 46.61.506.
- Chapter 448-13**  
**ADMINISTRATION OF BREATH TEST PROGRAM**
- 448-13-010 Basis for rules governing breath testing. [Statutory Authority: RCW 46.61.506. 91-06-022, § 448-13-010, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-020 Approval of breath test instruments. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-020, filed 9/27/95, effective 10/28/95; 91-21-040, § 448-13-020, filed 10/11/91, effective 11/11/91; 91-06-022, § 448-13-020, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-030 Definitions. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-030, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-030, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-030, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-035 Simulator thermometer certification. [Statutory Authority: RCW 46.61.506. 01-17-009, § 448-13-035, filed 8/2/01, effective 9/2/01.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-040 Administration of breath test on the DataMaster. [Statutory Authority: RCW 46.61.506. 01-17-009, § 448-13-040, filed 8/2/01, effective 9/2/01; 99-06-048, § 448-13-040, filed 3/1/99, effective 4/1/99; 91-21-040, § 448-13-040, filed 10/11/91, effective 11/11/91; 91-06-022, § 448-13-040, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-050 Test defined. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-050, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-050, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-050, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-055 Interference with breath test. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-055, filed 9/27/95, effective 10/28/95.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-056 Invalid sample message. [Statutory Authority: RCW 46.61.506. 01-17-009, § 448-13-056, filed 8/2/01, effective 9/2/01.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61-506.
- 448-13-060 Validity and certification of test results. [Statutory Authority: RCW 46.61.506. 01-17-009, § 448-13-060, filed 8/2/01, effective 9/2/01; 99-22-009, § 448-13-060, filed 10/22/99, effective 11/22/99; 95-20-025, § 448-13-060, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-060, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-065 Interpretation of breath test results for purposes of sentencing. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-065, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-065, filed 9/27/95, effective 10/28/95.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-070 External standard simulator solution. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-070, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-070, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-070, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-080 Preparation and certification of external standard simulator solution. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-080, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-080, filed 9/27/95, effective 10/28/95; 91-21-040, § 448-13-080, filed 10/11/91, effective 11/11/91; 91-06-022, § 448-13-080, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-090 Software. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-090, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-090, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-100 Use of the data base on the DataMaster. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-100, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-100, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-110 Quality assurance program. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-110, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-110, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-120 Blood/breath correlation studies. [Statutory Authority: RCW 46.61.506. 91-06-022, § 448-13-120, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-130 Review, approval, and authorization of protocols of procedures and methods by the state toxicologist. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-130, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-130, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-140 Instructors. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-140, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-140, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-140, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-150 Operators. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-150, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-150, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-160 Solution changers. [Statutory Authority: RCW 46.61-506. 95-20-025, § 448-13-160, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-160, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-170 Technicians. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-170, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-170, filed 9/27/95, effective 10/28/95; 91-21-040, § 448-13-170, filed 10/11/91, effective 11/11/91; 91-06-022, § 448-13-170, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-180 Permit cards. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-180, filed 3/1/99, effective 4/1/99; 91-06-022, § 448-13-180, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-190 Review, approval, and authorization by the state toxicologist of training courses and outlines. [Statutory Authority: RCW 46.61.506. 91-06-022, § 448-13-190, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-200 Information concerning technical aspects of the breath test program. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-200, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-200, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-210 Address for correspondence. [Statutory Authority: RCW 46.61.506. 99-06-048, § 448-13-210, filed 3/1/99, effective 4/1/99; 95-20-025, § 448-13-210, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-210, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.

- 448-13-220 Effective date. [Statutory Authority: RCW 46.61.506. 95-20-025, § 448-13-220, filed 9/27/95, effective 10/28/95; 91-06-022, § 448-13-220, filed 2/26/91, effective 3/29/91.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.
- 448-13-225 Severability. [Statutory Authority: RCW 46.61.506. 01-17-009, § 448-13-225, filed 8/2/01, effective 9/2/01.] Repealed by 04-19-144, filed 9/22/04, effective 10/23/04. Statutory Authority: RCW 46.61.506.

**Reviser's note:** Later promulgation, see chapter 448-16 WAC.

### Chapter 448-14 WAC

#### STATE TOXICOLOGIST STANDARDS FOR ANALYSIS OF BLOOD SAMPLES FOR ALCOHOL

##### WAC

- 448-14-010 Criteria for approved methods of quantitative analysis of blood samples for alcohol.
- 448-14-020 Operational discipline of blood samples for alcohol.
- 448-14-030 Qualifications for a blood alcohol analyst.

**WAC 448-14-010 Criteria for approved methods of quantitative analysis of blood samples for alcohol.** Any quantitative blood alcohol analysis method which meets the following criteria is approved by the state toxicologist and may be used in the state of Washington. Analysis of urine for estimation of blood alcohol concentrations is not approved by the state toxicologist in the state of Washington.

The blood analysis procedure should have the following capabilities:

(1) Precision and accuracy.

(a) The method shall be capable of replicate analyses by an analyst under identical test conditions so that consecutive test results on the same date agree with a difference which is not more than 3% of the mean value of the tests. This criterion is to be applied to blood alcohol levels of 0.08% and higher.

(b) Except for gas chromatography, the method should be calibrated with water solutions of ethyl alcohol, the strength of which should be determined by an oxidimetric method which employs a primary standard, such as United States National Bureau of Standards potassium dichromate.

(c) The method shall give a test result which is always less than 0.005% when alcohol-free living subjects are tested.

(2) Specificity.

(a) On living subjects, the method should be free from interferences native to the sample, such as therapeutics and preservatives; or the oxidizable material which is being measured by the reaction should be identified by qualitative test.

(b) Blood alcohol results on post-mortem samples should not be reported unless the oxidizable substance is identified as ethanol by qualitative test.

[Order 4, § 448-14-010, filed 7/9/70; Emergency and Permanent Order 3, § 448-14-010, filed 9/23/69.]

**WAC 448-14-020 Operational discipline of blood samples for alcohol.** (1) Analytical procedure.

(a) The analytical procedure should include:

(i) A control test

(ii) A blank test

(iii) Duplicate analyses that should agree to within 0.01% blood alcohol deviation from the mean.

(2009 Ed.)

(b) All sample remaining after analysis should be retained for at least three months under suitable storage conditions for further analysis if required.

(c) Each analyst shall engage in a program in which some blood samples containing alcohol are exchanged with other laboratories and tested on a blind basis so that precision and accuracy can be evaluated no less than one time per year.

(2) Reporting procedure.

(a) The results should be expressed as grams of alcohol per 100 ml of whole blood sample.

(b) The analysis results should be reported to two significant figures, using the mathematical rule of rounding.

(c) Blood alcohol results on living subjects 0.0009% or lower shall be reported as negative. Blood alcohol results on post-mortem samples of 0.019% or less shall be reported as negative. (See WAC 448-14-010 (2)(b))

(3) Sample container and preservative.

(a) A chemically clean dry container consistent with the size of the sample with an inert leak-proof stopper shall be used.

(b) Blood samples for alcohol analysis shall be preserved with an anticoagulant and an enzyme poison sufficient in amount to prevent clotting and stabilize the alcohol concentration. Suitable preservatives and anticoagulants include the combination of sodium fluoride and potassium oxalate.

[Order 4, § 448-14-020, filed 7/9/70; Emergency and Permanent Order 3, § 448-14-020, filed 9/23/69.]

**WAC 448-14-030 Qualifications for a blood alcohol analyst.** (1) Minimum qualifications for the issuance by the state toxicologist of a blood alcohol analyst permit shall include college level training in fundamental analytical chemistry with a minimum of five quarter hours of quantitative chemistry laboratory or equivalent, with a passing grade.

(2) The state toxicologist shall issue a blood alcohol analyst permit to each person he finds to be properly qualified, and he shall hold written, oral or practical examinations to aid him in judging qualifications of applicants. Such permits shall bear the signature or facsimile signature of the state toxicologist and be dated.

(3) The blood alcohol analyst permits are subject to cancellation by the state toxicologist if the permittee refuses or fails to obtain satisfactory results on samples periodically distributed to the permittees by the state toxicologist.

[Order 4, § 448-14-030, filed 7/9/70; Emergency and Permanent Order 3, § 448-14-030, filed 9/23/69.]

### Chapter 448-15 WAC

#### ADMINISTRATION OF BREATH ALCOHOL SCREENING TEST

##### WAC

- 448-15-010 Approval of devices.
- 448-15-020 Use of test results.
- 448-15-030 Test protocol.
- 448-15-040 Certification.
- 448-15-050 PBT operators.
- 448-15-060 PBT technicians.

**WAC 448-15-010 Approval of devices.** The following preliminary breath test (PBT) instruments are approved for use in the state of Washington as breath alcohol screening

[Title 448 WAC—p. 3]

devices, subject to the requirements outlined in the following sections:

- Alcosensor III (Intoximeters, St. Louis, MO).
- Alcosensor FST (Intoximeters, St. Louis, MO).

Any other instruments approved by the National Highway Traffic Safety Administration (NHTSA) will be considered for approval in Washington state on application to the state toxicologist, providing that a suitable program for maintenance, certification and operator training is also established and approved.

[Statutory Authority: RCW 46.61.506. 08-05-029, § 448-15-010, filed 2/12/08, effective 3/14/08; 99-06-047, § 448-15-010, filed 3/1/99, effective 4/1/99.]

**WAC 448-15-020 Use of test results.** The devices described in WAC 448-15-010 are approved for use in establishing probable cause that a subject has consumed alcohol. For purposes of this section, valid results are considered those obtained from following the approved protocol, by a trained operator using an approved device which has been certified according to the rules described in WAC 448-15-030. Valid results will show to a reasonable degree of scientific certainty, the test subject's breath alcohol concentration. Valid results are suitable to assist in establishing probable cause to place a person under arrest for alcohol related offenses. These results may not be used on their own for determining, beyond a reasonable doubt, that a person's breath alcohol concentration exceeds a proscribed level such as anticipated under the 'per se' statutes for intoxication.

This preliminary breath test is voluntary, and participation in it does not constitute compliance with the implied consent statute (RCW 46.20.308).

[Statutory Authority: RCW 46.61.506. 08-05-029, § 448-15-020, filed 2/12/08, effective 3/14/08; 99-06-047, § 448-15-020, filed 3/1/99, effective 4/1/99.]

**WAC 448-15-030 Test protocol.** The operator must perform the test according to the policies and procedures approved by the state toxicologist. The operator will perform the following test protocol:

- (1) The operator shall advise the subject that this is a voluntary test, and that it is not an alternative to any evidential breath alcohol test.
- (2) The operator shall determine by observation or inquiry, that the subject has not consumed any alcohol in the fifteen minutes prior to administering the test. If the subject has consumed alcohol during that period, the officer should not administer the screening test for probable cause purposes until fifteen minutes have passed. If the subject responds that they have not consumed any alcohol in the last fifteen minutes, the officer may offer the subject the opportunity to provide a breath sample into the PBT.
- (3) Ensure a blank test result is obtained.
- (4) Have the subject exhale into the mouthpiece with a full and continuous exhalation.
- (5) Observe the results.

[Statutory Authority: RCW 46.61.506. 08-05-029, § 448-15-030, filed 2/12/08, effective 3/14/08; 99-06-047, § 448-15-030, filed 3/1/99, effective 4/1/99.]

**WAC 448-15-040 Certification.** Any PBT used as described in the preceding sections, must be certified at least every six months. In order to certify a PBT as accurate, the certifying agency must follow a protocol approved by the state toxicologist. Certification of PBTs can be performed by persons certified by the state toxicologist as PBT technicians, or by factory authorized representatives, provided that the protocol for certification approved by the state toxicologist is followed.

[Statutory Authority: RCW 46.61.506. 08-05-029, § 448-15-040, filed 2/12/08, effective 3/14/08; 99-06-047, § 448-15-040, filed 3/1/99, effective 4/1/99.]

**WAC 448-15-050 PBT operators.** Persons certified as evidential breath test instrument operators as described in chapter 448-16 WAC shall be trained and authorized to perform the tests described herein on the PBT, for the purposes outlined in this section.

[Statutory Authority: RCW 46.61.506. 08-05-029, § 448-15-050, filed 2/12/08, effective 3/14/08; 99-06-047, § 448-15-050, filed 3/1/99, effective 4/1/99.]

**WAC 448-15-060 PBT technicians.** Persons trained according to outlines approved by the state toxicologist, in the proper procedures for certifying PBT instruments shall be certified as PBT technicians. Their responsibilities will include performing periodic certification and maintaining records on such certification. Wallet sized permits shall be issued to persons so qualified. The certification received on successful completion of the training must be renewed every three years. Persons certified as evidential breath test instrument technicians as described in chapter 448-16 WAC are also certified to perform all the duties of PBT technicians.

[Statutory Authority: RCW 46.61.506. 08-05-029, § 448-15-060, filed 2/12/08, effective 3/14/08; 99-06-047, § 448-15-060, filed 3/1/99, effective 4/1/99.]

## Chapter 448-16 WAC

### ADMINISTRATION OF BREATH TEST PROGRAM

#### WAC

448-16-010	Basis for rules governing breath testing.
448-16-020	Approval of breath test equipment.
448-16-030	Definitions.
448-16-040	Foreign substances, interference, and invalid samples.
448-16-050	Test defined.
448-16-060	Determining agreement of duplicate breath samples.
448-16-070	Review, approval, and authorization of protocols of procedures and methods by the state toxicologist.
448-16-080	Instructors.
448-16-090	Operators.
448-16-100	Solution changers.
448-16-110	Technicians.
448-16-120	Permit cards.
448-16-130	Review, approval, and authorization by the state toxicologist of training courses and outlines.
448-16-140	Information concerning technical aspects of the breath test program.
448-16-150	Address for correspondence.
448-16-160	Severability.

**WAC 448-16-010 Basis for rules governing breath testing.** In RCW 46.61.506(4), the legislature establishes criteria for the admissibility of breath alcohol test evidence. RCW 46.61.506(3) authorizes and directs the state toxicologist to approve satisfactory techniques or methods, to super-

wise the examination of individuals to ascertain their qualifications and competence to conduct such analyses, and to issue permits to those individuals. These rules are intended to implement the direction of the statute by 1) approving instruments and associated equipment capable of performing a reliable breath alcohol test, 2) identifying classifications of individuals who are to be examined for their competence to conduct such tests, and operate or maintain that equipment, and 3) identifying certain aspects of the operation of that equipment, necessary for reliable testing.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-010, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-020 Approval of breath test equipment.**

(1) Pursuant to RCW 46.61.506, the following instruments are approved for the quantitative measurement of alcohol in a person's breath:

- (a) The DataMaster.
- (b) The DataMaster CDM.

(2) Pursuant to RCW 46.61.506, the following thermometers are approved:

- (a) Mercury in glass thermometers with a scale graduated in tenths of a degree measuring a range between 33.5 and 34.5 degrees centigrade.
- (b) Digital thermometer system contained within the Guth 2100 wet bath simulator.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-020, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-030 Definitions.** (1) "Accuracy" means the proximity of a measured value to a reference value.

(2) "Alcohol" means the unique chemical compound ethyl alcohol.

(3) "Blank test" means the testing of an instrument to ensure that no alcohol from a previous test can interfere with a person's breath test.

(4) "Concentration" means the weight amount of alcohol, expressed in grams, contained in two hundred ten liters of breath or alcohol/water vapor.

(5) "Data entry" means the process of providing information through a keyboard to the instrument for the purposes of (a) identifying a breath test document to an individual and (b) statistical analysis.

(6) "Interference" means a test result whose infrared absorbance properties are not consistent with ethanol.

(7) "End expiratory air" means the last portion of breath to be delivered to the instrument once the appropriate sample acceptance criteria have been met.

(8) "External standard test" means the use of a simulator containing a certified simulator solution, to provide a known alcohol vapor concentration to test the accuracy and proper working order of the instrument. This test of the function of the instrument is performed with every breath test. The external standard test does not calibrate the instrument.

(9) "Internal standard test" means the use of a quartz filter to provide a check that the instrument has maintained calibration since the last time calibration was performed and is in proper working order at the time of the test.

(10) "Precision" means the ability of a technique to perform a measurement in a reproducible manner.

(2009 Ed.)

(11) "Simulator" means a device which when filled with a certified simulator solution, maintained at a known temperature, provides a vapor sample of known alcohol concentration.

(12) "Valid breath sample" means a sample of a person's breath provided in such a manner to be accepted for analysis by the instrument.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-030, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-040 Foreign substances, interference, and invalid samples.**

(1) A determination as to whether a subject has a foreign substance in his or her mouth shall be made by either an examination of the mouth or a denial by the person that he or she has any foreign substances in their mouth. A test mouthpiece is not considered a foreign substance for purposes of RCW 46.61.506.

(2) If a subject is wearing jewelry or ornamentation pierced through their tongue, lips, cheek, or other soft tissues in the oral cavity, they will be required to remove this prior to conducting the breath test. If the subject declines to remove the jewelry or ornamentation, they will be deemed to have a physical limitation rendering them incapable of providing a valid breath sample and will be required to provide a blood sample under the implied consent statute, RCW 46.20.308.

(3) If during a breath test, interference is detected, this will invalidate the test. The subject will be required to repeat the test. A subject whose breath registers the presence of interference on two or more successive breaths shall be deemed to have a physical limitation rendering them incapable of providing a valid breath sample and will be required to provide a blood sample under the implied consent statute, RCW 46.20.308.

(4) In the event that the instrument records an "invalid sample" result at any point during the subject's test, that subject's test should be readministered, after again determining that the subject has no foreign substance in their mouth as outlined in WAC 448-16-040(1), and repeating the fifteen minute observation period.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-040, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-050 Test defined.** A test of a person's breath for alcohol concentration shall consist of the person insufflating end-expiratory air samples at least twice into the instrument, sufficient to allow two separate measurements. There will be sufficient time between the provision of each sample to permit the instrument to measure each sample individually. Two valid breath samples, provided consecutively, will constitute one test.

The instrument will perform this test according to the following protocol when being employed to quantitatively measure an individual's breath alcohol concentration. Successful compliance with each step of this protocol is determined from an inspection of the printout of results. These steps are necessary to ensure accuracy, precision, and confidence in each test.

Step 1. Data entry.

Step 2. Blank test with a result of .000.

Step 3. Internal standard verified.

Step 4. First breath sample provided by subject.

[Title 448 WAC—p. 5]

Step 5. Blank test with a result of .000.

Step 6. External standard simulator solution test. The result of this test must be between .072 and .088 inclusive.

Step 7. Blank test with a result of .000.

Step 8. Second breath sample provided by subject.

Step 9. Blank test with a result of .000.

Step 10. Printout of results.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-050, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-060 Determining agreement of duplicate breath samples.** Pursuant to RCW 46.61.506 the following method is approved for determining whether two breath samples agree to within plus or minus ten percent of their mean.

(1) The breath test results shall be reported, truncated to three decimal places.

(2) The mean of the two breath test results shall be calculated and rounded to four decimal places.

(3) The lower acceptable limit shall be determined by multiplying the above mean by 0.9, and truncating to three decimal places.

(4) The upper acceptable limit shall be determined by multiplying the mean by 1.1 and truncating to three decimal places.

(5) If the results fall within and inclusive of the upper and lower acceptable limits, the two breath samples are valid.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-060, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-070 Review, approval, and authorization of protocols of procedures and methods by the state toxicologist.** The state toxicologist shall review, approve, and authorize such protocols of procedures and methods (of the toxicologist's own promulgation or submitted by outside agencies or individuals for consideration) required in the administration of the breath test program. Such review, approval, and authorization will be so signified by a signed statement attached to each protocol, and kept on file by the Washington State Patrol. These protocols will be updated as necessary to maintain the quality of the breath test program.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-070, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-080 Instructors.** The state toxicologist shall certify persons found to be competent and qualified, as "instructors." Instructors are authorized to administer breath tests for alcohol concentration using approved instruments and are further authorized to train and certify as operators, according to outlines approved by the state toxicologist, those persons the instructor finds qualified to administer the breath test utilizing approved instruments. Instructors who are also certified as PBT technicians may instruct other individuals as PBT technicians according to the approved outlines. Details of persons certified as instructors shall be maintained by the state toxicologist and available upon request.

If an instructor fails or refuses to demonstrate to the state toxicologist or to his representative, that they have the ability to adequately perform their responsibilities as an instructor, then the state toxicologist will suspend their permit.

[Title 448 WAC—p. 6]

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-080, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-090 Operators.** The state toxicologist, or certified instructors shall certify as "operators" persons found by them to be competent and qualified to administer breath tests for alcohol concentration using approved breath testing instruments. Persons who have attended courses in the operation of approved breath testing instruments taught by an instructor qualified by the state toxicologist, upon certification of attendance and qualification, shall be designated as "operators." Details of persons so certified shall be maintained by the state toxicologist and available upon request.

If an operator fails or refuses to demonstrate to the state toxicologist or to a certified instructor, that he or she has the ability to adequately perform his or her responsibilities as an operator, then the state toxicologist will suspend their permit.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-090, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-100 Solution changers.** The state toxicologist, or certified instructors, shall certify as "solution changers" operators found by them to be competent and qualified. In addition to being qualified as "operators" these persons must receive approved instruction covering the changing of simulator external standard solutions for approved breath test instruments, taught by an instructor qualified by the state toxicologist. Details of persons so certified shall be maintained by the state toxicologist and available upon request.

If a solution changer fails or refuses to demonstrate to the state toxicologist or to a certified instructor, that he or she has the ability to adequately perform his or her responsibilities as a solution changer, then the state toxicologist will suspend their permit.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-100, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-110 Technicians.** The state toxicologist shall certify as "technicians" such persons found to be competent and qualified to maintain the proper working order of breath test instruments through adjustment, repair, and regular service. Details of persons so certified shall be maintained by the state toxicologist and available upon request.

Technicians are authorized to perform maintenance, calibration and instruction in the use of the portable breath test devices. Technicians are also authorized to instruct persons otherwise qualified as "technicians," "instructors," "operators," and "solution changers" according to training outlines approved by the state toxicologist. Certified technicians are themselves authorized to perform the duties of "instructors," "operators," and "solution changers."

If a technician fails or refuses to demonstrate to the state toxicologist or his representative, that he or she has the ability to adequately perform his or her responsibilities as a technician, then the state toxicologist will suspend their permit.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-110, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-120 Permit cards.** Pursuant to RCW 46.61.506, the state toxicologist shall authorize the issuance to persons deemed qualified as "instructors," "operators," "solution changers" or "technicians," a wallet-sized card bearing his or her name and designation. Permit cards shall bear the signature or facsimile signature of the state toxicologist. Such permit cards shall expire three years after the date on the card, unless renewed for a like three-year period. Operators whose authorization expires may take recertification training within ninety days following expiration of their prior certification, but are not certified to perform any evidential breath tests during that period. Once ninety days have elapsed after the expiration of authorization, the operator must repeat the basic certification training.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-120, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-130 Review, approval, and authorization by the state toxicologist of training courses and outlines.** The state toxicologist shall approve and authorize such courses and course outlines (of his own promulgation or submitted for consideration by outside agencies or individuals) required in the training of breath test program personnel. Such review, approval, and authorization will be so signified by a signed statement attached to each course outline. These course outlines may be reviewed and updated as necessary to maintain the quality of the breath test program. Instructors are directed to use only approved outlines in conducting the training of operators. Information concerning currently approved course outlines can be obtained on application to the office of the state toxicologist.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-130, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-140 Information concerning technical aspects of the breath test program.** Documents used by the state toxicologist and personnel involved in breath testing for the state of Washington, which are available on request include: The simulator solution preparation protocol, alcohol analysis protocol, certification document for simulator solution, affidavit from analyst of simulator solution, data base, quality assurance protocol, quality assurance procedure report, operator course outline, operator refresher course outline, and operator training record. A fee may be charged to cover the cost of providing these copies. Copies of most of these records are available at no charge on a web site maintained by the Washington state patrol at <http://breath-test.wsp.wa.gov/welcome.htm>.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-140, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-150 Address for correspondence.** Information regarding instrument records, or the certification of operators, instructors, solution changers, and technicians should be obtained from the Washington State Patrol, Breath Test Section, 811 E. Roanoke, Seattle, WA 98102.

Persons seeking information regarding other aspects of the breath alcohol testing program shall direct their request initially to the State Toxicologist, Washington State Toxicology Laboratory, Forensic Laboratory Services Bureau,

(2009 Ed.)

Washington State Patrol, 2203 Airport Way S., Seattle, WA 98134.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-150, filed 9/22/04, effective 10/23/04.]

**WAC 448-16-160 Severability.** If any part or provision of these rules or regulations or the application thereof is held invalid, such invalidity shall not affect other provisions or applications of these rules which can be given effect without the invalid provision or application, and to this end any section, paragraph or sentence, is declared to be severable.

[Statutory Authority: RCW 46.61.506. 04-19-144, § 448-16-160, filed 9/22/04, effective 10/23/04.]